Test Report

Verified code: 105990

Report No.: E20241111636501-23EN

Customer:	Lumi United Technology Co., Ltd
Address:	Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China
Sample Name:	Climate Sensor W100
Sample Model:	TH-S04E
Receive Sample Date:	Nov.12,2024
Test Date:	Nov.26,2024 ~ Nov.28,2024
Reference Document:	AS/NZS CISPR 32:2015 Electromagnetic compatibility of multimedia equipment —Emission Requirements
Test Result:	Pass

Prepared by: Huang Lifang Reviewed by: Jiang Tao Approved by: Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-12-17

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5. This testing report is only for scientific research, teaching, internal quality control, etc.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20241111636501-23EN	Original Issue	2024-12-10

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1. TEST RESULT SUMMARY

Emissions

Test Item	Test mode	Equipment test requirement	Test Method	Class / Severity	Test Result
Radiated Emission	Mode 1,2	AS/NZS CISPR 32:2015	AS/NZS CISPR 32:2015 C.3.4	Table A.4 Class B Table A.5 Class B	PASS
Conducted Emission	/	AS/NZS CISPR 32:2015	AS/NZS CISPR 32:2015 C.3.5	Table A.10 Class B	N/A

Note: 1.The product is DC powered, so only need to test Radiated Emission.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name:	Lumi United Technology Co., Ltd
Address:	Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.2 MANUFACTURER

Name:	Lumi United Technology Co., Ltd
Address:	Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name:	Climate Sensor W100
Product Model:	TH-S04E
Adding Model:	TH-S04D
Models Difference:	The model No.TH-S04E & TH-S04D have the same technical construction including circuitdiagram,PCB LAYOUT, hardware version and software version identical, except sales area and packaging are different.
Trade Name:	Aqara
Power supply:	DC 3V
Battery Specification:	Button batteries; Model: CR2450; Nominal Voltage: 3V.
Frequency Band:	2402MHz - 2480MHz for BLE with 1M&2M; 2405MHz - 2480MHz for Zigbee; 2405MHz - 2480MHz for Thread.
Hardware Version:	V12
Software Version:	V0.0.2.0
Sample submitting way:	■Provided by customer □Sampling
Sample No:	E20241111636501-0008
Note:	1.We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions. 2. The model TH-S04E was tested and recorded in this report.

2.4 TEST MODE

Mode No.	Description of the modes
Mode 1	The EUT is power supply is button battery(DC 3V),the EUT connects to the gateway through mobile phone pairing and monitor temperature and humidity changes on the mobile phone app through the zigbee.
Mode 2	The EUT is power supply is button battery(DC 3V),the EUT connects to the gateway through mobile phone pairing and monitor temperature and humidity changes on the mobile phone app through the thread.

2.5 EUT OPERATING DESCRIPTIONS

No.	Operating description
a)	Mode 1: The mobile phone and gateway are connected to the external network of the router, detected the EUT on the phone app by the BLE signal broadcast of the EUT, and the EUT is connected to the gateway zigbee through the pairing of aqara home software on the mobile phone, and the Bluetooth connection is maintained in the mobile phone, monitor temperature and humidity changes on the mobile phone through the zigbee.
b)	Mode 2: The mobile phone and gateway are connected to the external network of the router, detected the EUT on the phone app by the BLE signal broadcast of the EUT, and the EUT is connected to the gateway thread through the pairing of aqara home software on the mobile phone, and the Bluetooth connection is maintained in the mobile phone, monitor temperature and humidity changes on the mobile phone app through the thread.

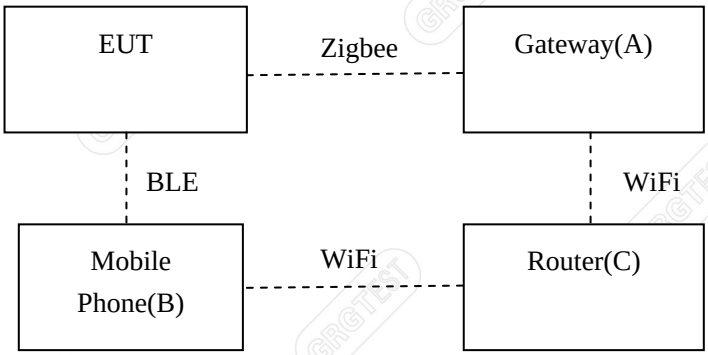
2.6 LOCAL SUPPORTIVE INSTRUMENTS

No.	Name of Equipment	Manufacturer	Model	Serial Number	Note
A	Gateway	Aqara	M3	/	/
B	Mobile phone	oppo	Find X2	A00000A42A20E0	/
C	Router	/	/	/	/

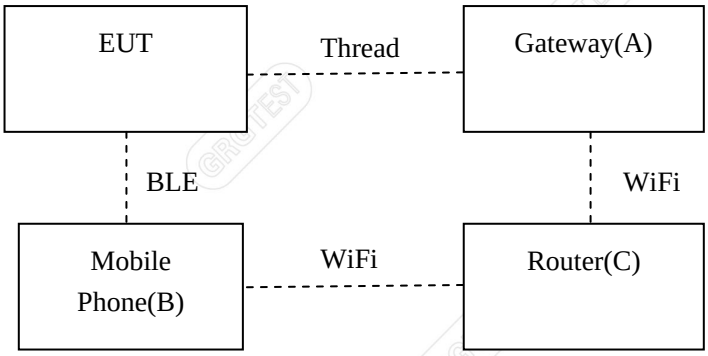
No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	/	/	/	/	/

2.7 CONFIGURATION OF SYSTEM UNDER TEST

For mode 1



For mode 2



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3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add.:	No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen, 518110, People's Republic of China.
P.C.:	518110
Tel :	0755-61180008
Fax:	0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

China	CNAS(L0446)

Copies of granted accreditation certificates are available for downloading from our web site, http://www.grgtest.com

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4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Test site	Measurement	Frequency	Uncertainty
966 chamber(3)	Radiated Emission	30 MHz ~ 200 MHz(H)	4.6dB[1)]
		200 MHz ~ 1000 MHz(H)	4.8dB[1)]
		30 MHz ~ 200 MHz(V)	4.7dB[1)]
		200 MHz ~ 1000 MHz(V)	4.7dB[1)]
		1 GHz ~ 6 GHz(H)	5.0dB[1)]
		1 GHz ~ 6 GHz(V)	5.1dB[1)]
[1)] This uncertainty represents an expanded uncertainty expressed at approximately the 95%. This uncertainty represents an expanded uncertainty factor of *k*=2.			

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5. LIST OF USED TEST EQUIPMENT AT GRGT

5.1 LIST OF USED TEST EQUIPMENT

Name of equipment	Manufacturer	Model	Serial number	Calibration due
Radiated Emission (Below 1GHz)				
Test S/W	FARAD	EZ_EMC	CCS-03A1	/
Test Receiver	R&S	ESR26	101758	2025-09-10
Preamplifier	EMEC	EM330	060662	2025-06-14
Bi-log Antenna	Schwarzbeck	VULB 9160	VULB9160-3402	2025-09-11
Radiated Emission (Above 1GHz)				
Test software	Tonscend	JS32-RE	5.0.0	/
Test Receiver	R&S	ESR26	101758	2025-09-10
Preamplifier	Tonscend	TAP01018048	AP20E8060075	2025-03-01
Preamplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G40	20200928005	2025-07-19
Horn antenna	Schwarzbeck	BBHA 9120D	02143	2025-09-07

Note: The calibration interval of the test instruments is 12 months.

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6. EMISSION TEST

6.1 RADIATED EMISSION MEASUREMENT (RE)

Test Requirement: AS/NZS CISPR 32:2015

Test Method: EN 55032 /annex A.2

6.1.1 LIMITS

The ancillary equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A tables A.4 and A.5.

Table A.4 – Requirements for radiated emissions at frequencies up to 1 GHz for class B equipment

Frequency range(MHz)	Distance (m)	Bandwidth	Limits (dBuV/m)		
			Peak (PK)	Quasi-peak (QP)	Average (Avg)
30~230	3	120kHz	/	40	/
230~1000	3	120kHz	/	47	/

Table A.5 – Requirements for radiated emissions at frequencies above 1 GHz for class B equipment

Frequency range(MHz)	Distance (m)	Bandwidth	Limits (dBuV/m)		
			Peak (PK)	Quasi-peak (QP)	Average (Avg)
1000~3000	3	1MHz	70	/	50
3000~6000	3	1MHz	74	/	54

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6.1.2 TEST PROCEDURE

(1) Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

-- Table-top equipment is placed on a non-conductive set-up table with height 0.8 m ±0.01 m, CISPR 16-1-4 specifies the method to determine the impact of the non-conductive set-up table on test results.

-- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Note: This is table-top equipment.

Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) were scanned during the preliminary test. After the preliminary scan, we found the test mode producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

(2) Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer/ Receiver scanned from 30MHz to 1000MHz and 1000MHz to 6000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and for 30MHz~1000MHz only QP reading is presented，for 1000MHz~6000 MHz Peak and AVG reading is presented.

6.1.3 TEST SETUP

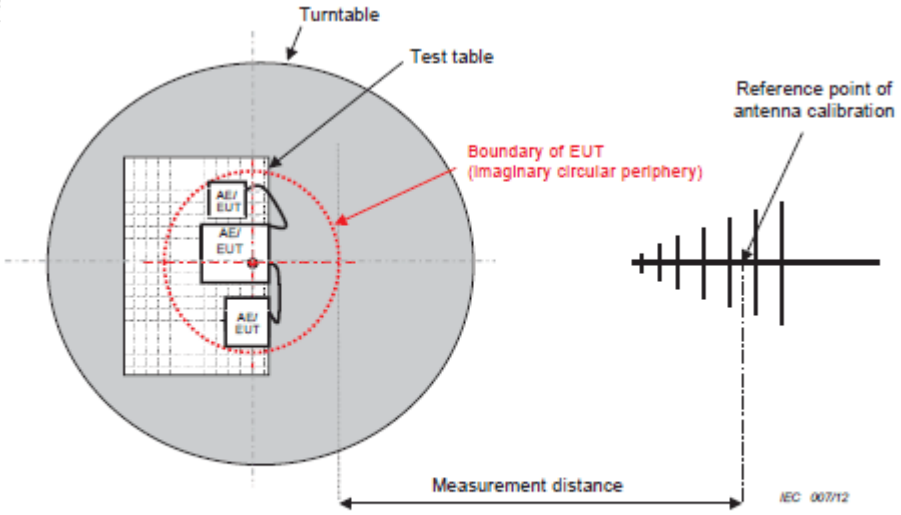


Figure C.1 – Measurement distance

Below the frequency of 1GHz

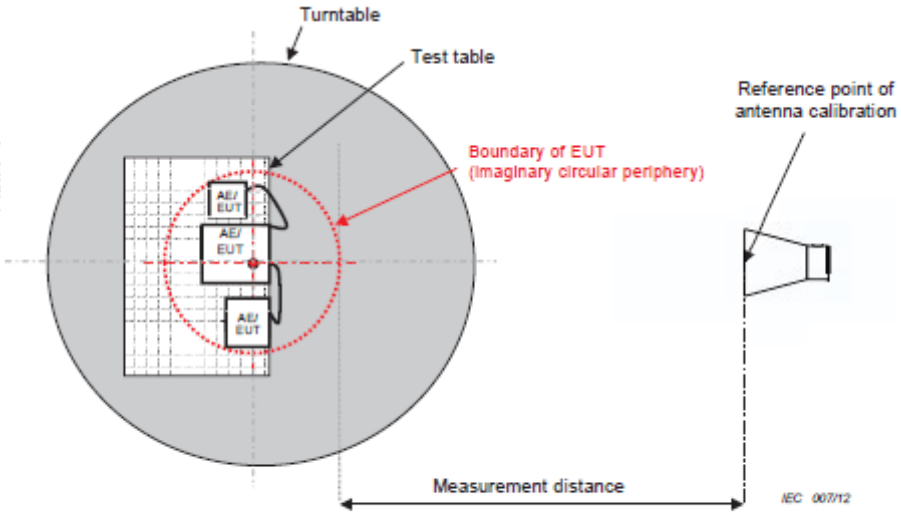


Figure C.1 – Measurement distance

Above the frequency of 1GHz(1GHz-6GHz)

6.1.4 DATA SAMPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
XXXX	63.53	-27.15	36.38	43.50	-7.12	0	100	QP

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV) = Uncorrected Analyzer / Receiver reading

Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Result (dBuV/m) – Limit(dBuV/m)

QP = Quasi-peak Reading

1GHz-6GHz

No.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV/m) = Uncorrected Analyzer / Receiver reading

Level (dBuV/m) = Reading (dBuV/m) + Factor (dB)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) =Limit(dBuV/m)- Level(dBuV/m)

Peak = Peak Reading

AVG = Average Reading

6.1.5 PHOTOGRAPH OF THE TEST ARRANGEMENT

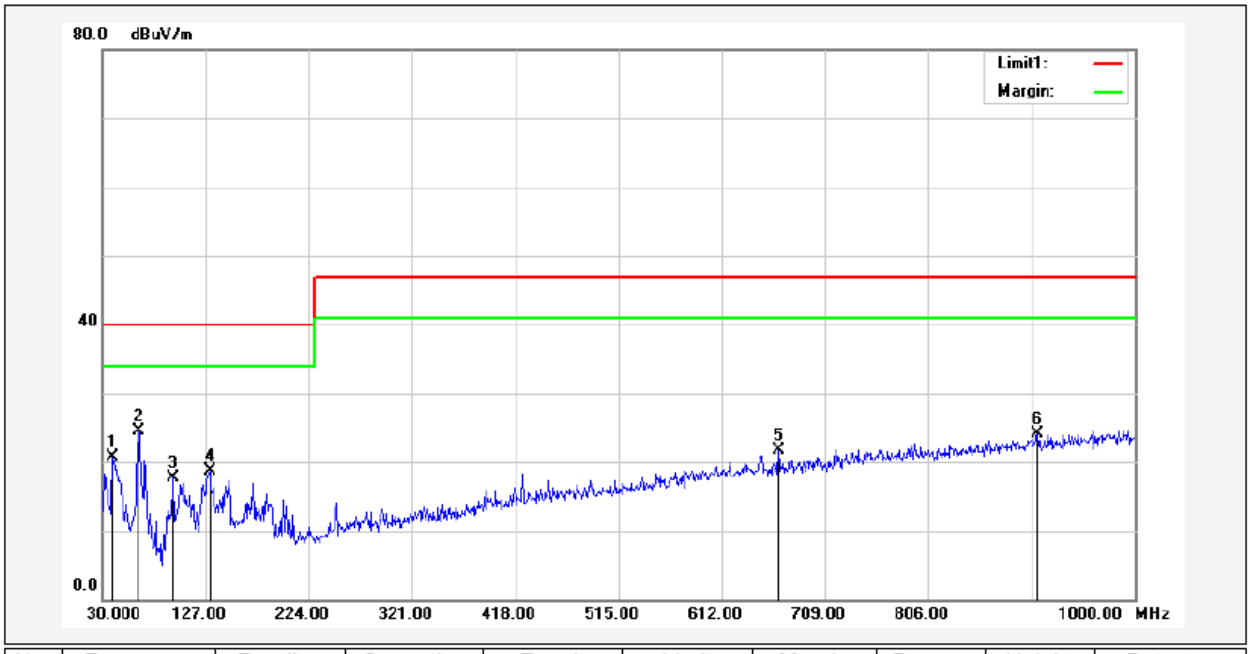
Please refer to the attached document E20241111636501-Test photo

6.1.6 TEST RESULTS

Below 1GHz

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.7℃/59%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-26	Sample No.	E20241111636501-0008

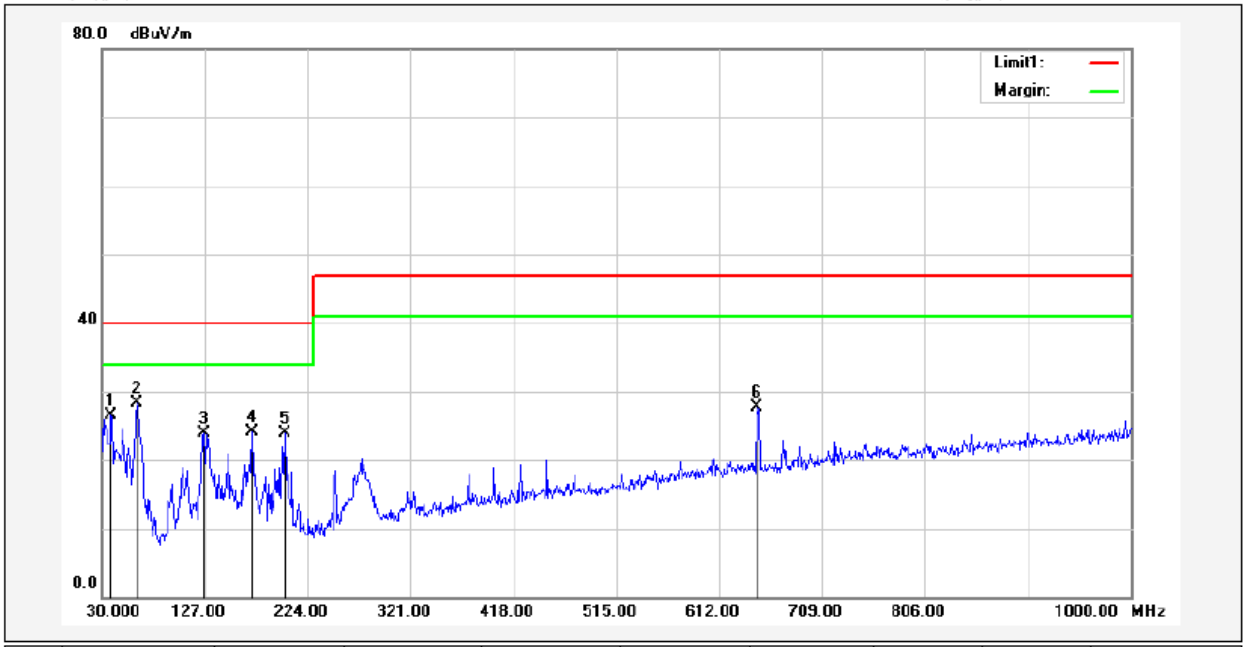
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	39.7000	38.00	-17.37	20.63	40.00	-19.37	138	100	QP
2*	63.9500	42.66	-18.24	24.42	40.00	-15.58	360	100	QP
3	96.9300	37.99	-20.29	17.70	40.00	-22.30	82	200	QP
4	130.8800	35.25	-16.59	18.66	40.00	-21.34	169	100	QP
5	665.3500	27.53	-5.89	21.64	47.00	-25.36	214	100	QP
6	908.8200	26.16	-2.03	24.13	47.00	-22.87	231	200	QP

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.7℃/59%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-26	Sample No.	E20241111636501-0008

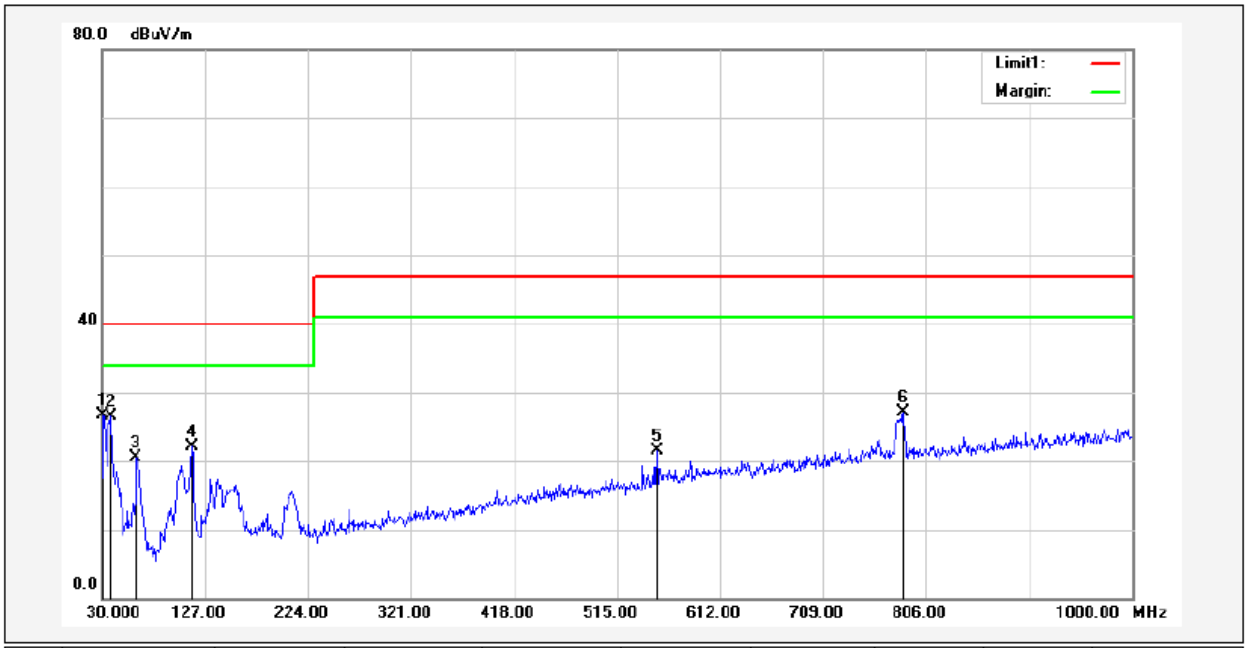
Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	38.7300	43.78	-17.37	26.41	40.00	-13.59	147	100	QP
2*	62.9800	46.40	-18.08	28.32	40.00	-11.68	360	151	QP
3	126.0300	41.18	-17.20	23.98	40.00	-16.02	360	115	QP
4	171.6200	40.34	-16.26	24.08	40.00	-15.92	20	100	QP
5	202.6600	42.49	-18.52	23.97	40.00	-16.03	216	100	QP
6	647.8900	33.79	-6.17	27.62	47.00	-19.38	357	100	QP

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.1℃/55%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-28	Sample No.	E20241111636501-0008

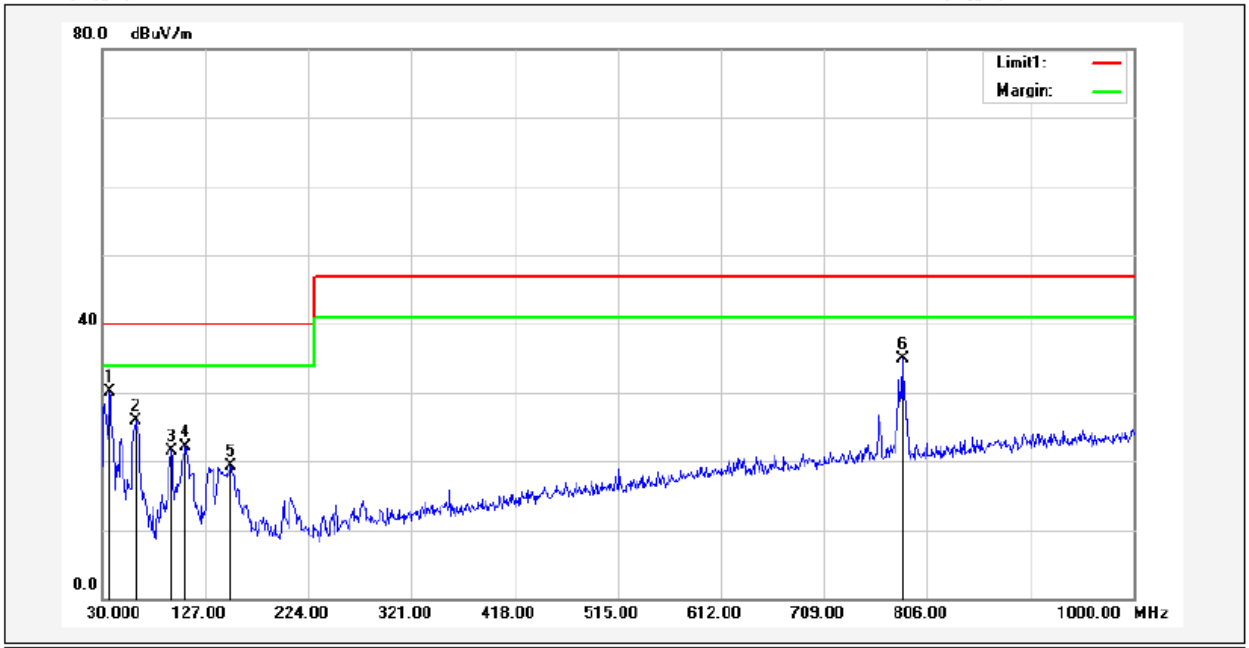
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	30.9700	44.13	-17.41	26.72	40.00	-13.28	127	100	QP
2	38.7300	43.85	-17.37	26.48	40.00	-13.52	321	200	QP
3	62.0100	38.50	-17.91	20.59	40.00	-19.41	105	100	QP
4	114.3900	40.12	-18.06	22.06	40.00	-17.94	0	162	QP
5	552.8300	29.74	-8.30	21.44	47.00	-25.56	306	200	QP
6	784.6600	30.89	-3.76	27.13	47.00	-19.87	237	100	QP

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.1℃/55%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-28	Sample No.	E20241111636501-0008

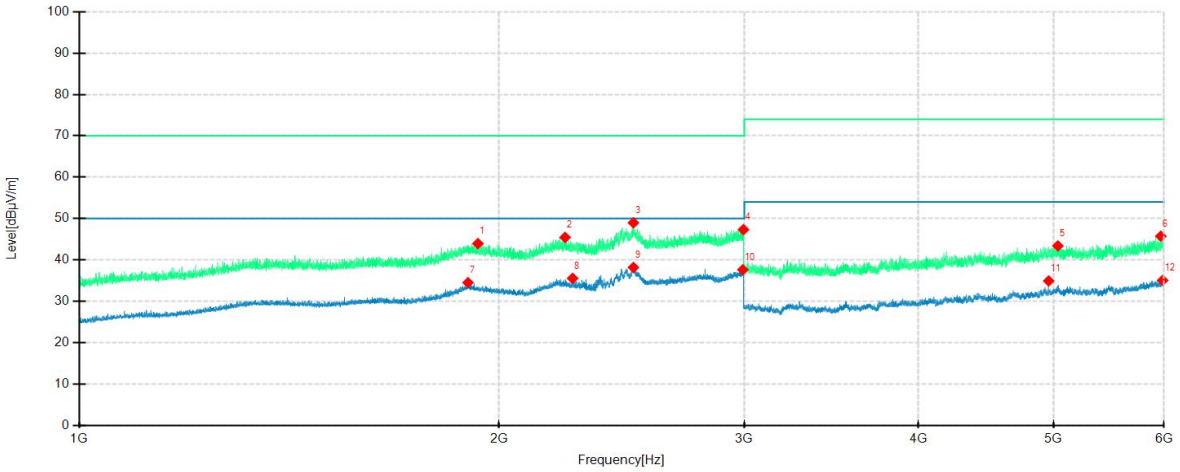
Polarity: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	36.7900	47.47	-17.39	30.08	40.00	-9.92	61	100	QP
2	61.0400	43.74	-17.75	25.99	40.00	-14.01	165	100	QP
3	94.9900	42.30	-20.70	21.60	40.00	-18.40	192	100	QP
4	108.5700	40.33	-18.30	22.03	40.00	-17.97	215	100	QP
5	151.2500	34.86	-15.65	19.21	40.00	-20.79	358	100	QP
6	782.7200	38.63	-3.77	34.86	47.00	-12.14	140	100	QP

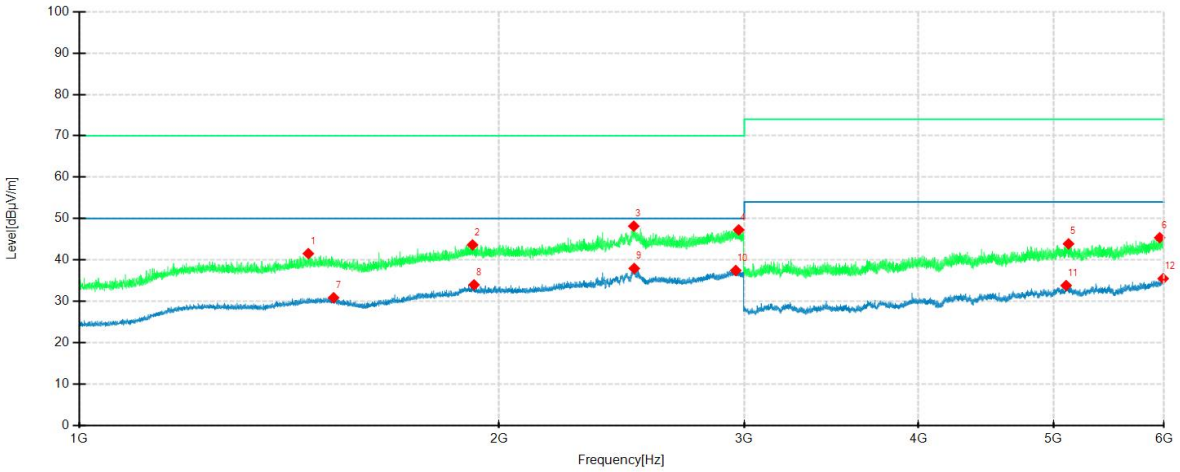
Above 1GHz

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.1℃/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-28	Sample No.	E20241111636501-0008



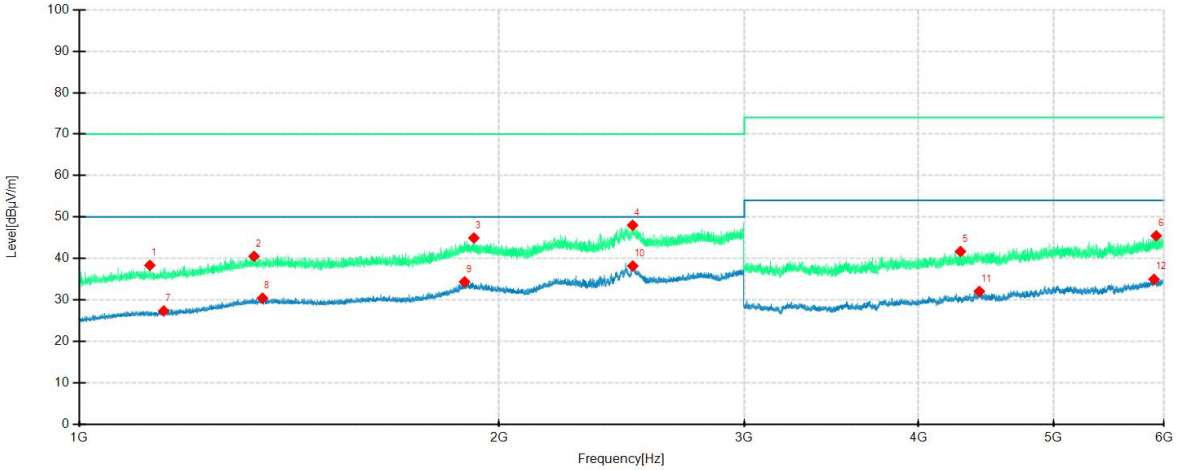
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1932.0000	48.33	43.93	-4.40	70.00	26.07	100	3	Horizontal
2	2231.0000	48.93	45.44	-3.49	70.00	24.56	100	338	Horizontal
3	2497.8000	49.15	48.96	-0.19	70.00	21.04	200	274	Horizontal
4	2995.6000	47.78	47.32	-0.46	70.00	22.68	200	254	Horizontal
5	5035.5000	49.62	43.38	-6.24	74.00	30.62	200	302	Horizontal
6	5968.8000	49.85	45.73	-4.12	74.00	28.27	100	151	Horizontal
7	1900.6000	38.58	34.49	-4.09	50.00	15.51	100	338	Horizontal
8	2259.0000	39.18	35.53	-3.65	50.00	14.47	200	53	Horizontal
9	2497.8000	38.35	38.16	-0.19	50.00	11.84	200	274	Horizontal
10	2992.6000	38.09	37.61	-0.48	50.00	12.39	100	274	Horizontal
11	4959.6000	41.66	34.90	-6.76	54.00	19.10	100	168	Horizontal
12	5987.1000	39.15	35.05	-4.10	54.00	18.95	200	208	Horizontal

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.1℃/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-28	Sample No.	E20241111636501-0008



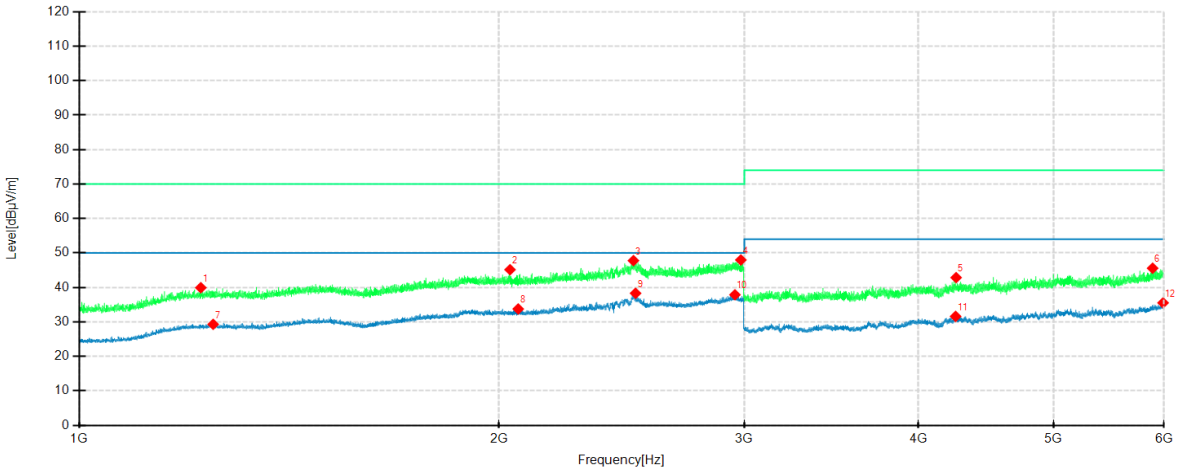
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1460.0000	49.04	41.51	-7.53	70.00	28.49	200	245	Vertical
2	1914.8000	48.32	43.62	-4.70	70.00	26.38	100	310	Vertical
3	2499.2000	48.64	48.15	-0.49	70.00	21.85	200	263	Vertical
4	2972.2000	47.75	47.25	-0.50	70.00	22.75	200	341	Vertical
5	5124.6000	49.73	43.87	-5.86	74.00	30.13	100	279	Vertical
6	5957.4000	49.26	45.36	-3.90	74.00	28.64	200	353	Vertical
7	1522.2000	38.36	30.84	-7.52	50.00	19.16	100	122	Vertical
8	1919.6000	38.70	33.96	-4.74	50.00	16.04	200	341	Vertical
9	2501.2000	38.44	37.92	-0.52	50.00	12.08	200	175	Vertical
10	2957.8000	37.75	37.42	-0.33	50.00	12.58	100	15	Vertical
11	5104.5000	39.74	33.80	-5.94	54.00	20.20	200	151	Vertical
12	5992.2000	39.19	35.47	-3.72	54.00	18.53	200	118	Vertical

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.1℃/55%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-28	Sample No.	E20241111636501-0008



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1123.8000	49.08	38.33	-10.75	70.00	31.67	200	339	Horizontal
2	1334.8000	48.42	40.49	-7.93	70.00	29.51	100	12	Horizontal
3	1919.0000	49.21	44.93	-4.28	70.00	25.07	100	184	Horizontal
4	2494.4000	48.24	48.00	-0.24	70.00	22.00	200	12	Horizontal
5	4287.3000	51.35	41.66	-9.69	74.00	32.34	100	268	Horizontal
6	5923.5000	49.52	45.45	-4.07	74.00	28.55	200	159	Horizontal
7	1149.8000	38.00	27.31	-10.69	50.00	22.69	100	247	Horizontal
8	1353.6000	38.20	30.40	-7.80	50.00	19.60	200	260	Horizontal
9	1890.0000	38.70	34.34	-4.36	50.00	15.66	200	74	Horizontal
10	2495.0000	38.40	38.17	-0.23	50.00	11.83	100	105	Horizontal
11	4422.6000	40.73	32.02	-8.71	54.00	21.98	100	268	Horizontal
12	5902.2000	38.98	34.96	-4.02	54.00	19.04	200	238	Horizontal

EUT Name	Climate Sensor W100	Model	TH-S04E
Environmental Conditions	25.1℃/55%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 3V	Tested By	Zhao Yaru
Test Date	2024-11-28	Sample No.	E20241111636501-0008



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1222.4000	48.72	39.92	-8.80	70.00	30.08	200	122	Vertical
2	2037.2000	50.02	45.15	-4.87	70.00	24.85	200	168	Vertical
3	2497.8000	48.29	47.78	-0.51	70.00	22.22	200	29	Vertical
4	2982.8000	48.59	47.97	-0.62	70.00	22.03	200	29	Vertical
5	4256.4000	52.13	42.85	-9.28	74.00	31.15	100	52	Vertical
6	5888.4000	49.71	45.57	-4.14	74.00	28.43	200	318	Vertical
7	1247.6000	37.87	29.29	-8.58	50.00	20.71	200	230	Vertical
8	2065.0000	38.67	33.75	-4.92	50.00	16.25	200	44	Vertical
9	2506.6000	39.05	38.31	-0.74	50.00	11.69	200	168	Vertical
10	2953.8000	38.16	37.87	-0.29	50.00	12.13	200	1	Vertical
11	4252.8000	40.90	31.59	-9.31	54.00	22.41	200	35	Vertical
12	5991.0000	39.25	35.52	-3.73	54.00	18.48	200	272	Vertical

Remark: The fundamental frequency or multiple of fundamental frequency's limit is controlled to the standard of Radio frequency.

APPENDIX A. PHOTOGRAPHS OF EUT

Please refer to the attached document E20241111636501-EUT Photo.

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